CAAM 652 – Spring 2015

Instructor and general information

Instructor:	Adrianna Gillman
Office:	DCH 3022
Office hours:	by appointment
Contact:	713-348-5665 (phone) or adrianna.gillman@rice.edu (email)
Lecture times:	MWF 11-11:50 am
Lecture location:	HRZ 211

Textbook: There is no course textbook but some useful resources are:

- Older course notes by P.-G. Martinsson
- Multilevel Compression of Linear Operators by P.-G. Martinsson and M. Tygert
- A Short Course on Fast Multipole Methods by R Beatson and L. Greengard
- Finding Structure with Randomness: Probabilistic Algorithms for Constructing Approximate Matrix Decompositions by N. Halko, P.-G. Martinsson, and J. A. Tropp
- Fast Multipole Boundary Element Method, by Y. Liu, Cambridge University Press

Most reading will be drawn from the journal literature.

Project: Each student will do a project which will consist of a presenting a piece of work related to the course material and a document reporting on the project material. Project suggestions are listed on the course webpage.

Grades

Grades will be assigned based on homework and exams as follows.

Component	Percentage
Participation	20
Project outline	10
Presentation	35
Report	35
Total	**100**

Note on Disability Based Accommodations

If you have a documented disability that will impact your work in this class, please contact us to discuss your needs. Additionally, you will need to register with the Disability Support Services Office in the Ley Student Center.

The Honor Principle

Unless noted otherwise, you are encouraged to discuss regular homework problems with fellow classmates. You are expected, however, to individually write up your solutions. On pledged problems, you are not allowed to discuss homework with fellow students. You are never allowed to share computer codes for assignments. Each student is responsible for writing their own codes. You may not consult solution sheets from past CAAM courses.